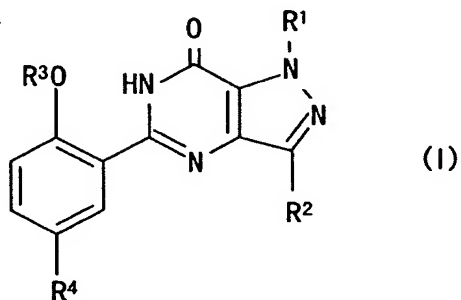


## CLAIMS

1. A method for alleviating pain or spasticity in a patient suffering from spinal cord injury, comprising the step of administering to the patient such an effective amount of a cGMP PDE5 inhibitor sufficient to alleviate the pain or spasticity.
2. The method according to claim 1, wherein the inhibitor is administered orally.
3. The method according to claim 1, wherein the daily dosage is 5 to 500 mg.
4. The method according to claim 1, wherein the inhibitor has an  $IC_{50}$  at less than 100 nanomolar.
5. The method according to claim 1, wherein the inhibitor has a selectivity ratio in excess of 100.
6. The method according to claim 1, wherein the inhibitor is a compound of formula (I):



wherein  $R^1$  is H;  $C_1$ - $C_3$  alkyl;  $C_1$ - $C_3$  perfluoroalkyl; or  $C_3$ - $C_5$  cycloalkyl;

R<sup>2</sup> is H; C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with C<sub>3</sub>-C<sub>6</sub> cycloalkyl; C<sub>1</sub>-C<sub>3</sub> perfluoroalkyl; or C<sub>3</sub>-C<sub>6</sub> cycloalkyl;

R<sup>3</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted with C<sub>3</sub>-C<sub>6</sub> cycloalkyl; C<sub>1</sub>-C<sub>6</sub> perfluoroalkyl; C<sub>3</sub>-C<sub>5</sub> cycloalkyl; C<sub>3</sub>-C<sub>6</sub> alkenyl; or C<sub>3</sub>-C<sub>6</sub> alkynyl;

R<sup>4</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl optionally substituted with OH, NR<sup>5</sup>R<sup>6</sup>, CN, CONR<sup>5</sup>R<sup>6</sup> or CO<sub>2</sub>R<sup>7</sup>; C<sub>2</sub>-C<sub>4</sub> alkenyl optionally substituted with CN, CONR<sup>5</sup>R<sup>6</sup> or CO<sub>2</sub>R<sup>7</sup>; C<sub>2</sub>-C<sub>4</sub> alkanoyl optionally substituted with NR<sup>5</sup>R<sup>6</sup>; (hydroxy)C<sub>2</sub>-C<sub>4</sub> alkyl optionally substituted with NR<sup>5</sup>R<sup>6</sup>; (C<sub>2</sub>-C<sub>3</sub> alkoxy)C<sub>1</sub>-C<sub>2</sub> alkyl optionally substituted with OH or NR<sup>5</sup>R<sup>6</sup>; CONR<sup>5</sup>R<sup>6</sup>; CO<sub>2</sub>R<sup>7</sup>; halo; NR<sup>5</sup>R<sup>6</sup>; NHSO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>; NHSO<sub>2</sub>R<sup>8</sup>; SO<sub>2</sub>NR<sup>9</sup>R<sup>10</sup>; or phenyl, pyridyl, pyrimidinyl, imidazolyl, oxazolyl, thiazolyl, thienyl or triazolyl any of which is optionally substituted with methyl;

R<sup>5</sup> and R<sup>6</sup> are each independently H or C<sub>1</sub>-C<sub>4</sub> alkyl, or together with the nitrogen atom to which they are attached form a pyrrolidinyl, piperidino, morpholino, 4-N(R<sup>11</sup>)-piperazinyl or imidazolyl group wherein said group is optionally substituted with methyl or OH;

R<sup>7</sup> is H or C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>8</sup> is C<sub>1</sub>-C<sub>3</sub> alkyl optionally substituted with NR<sup>5</sup>R<sup>6</sup>;

R<sup>9</sup> and R<sup>10</sup> together with the nitrogen atom to which they are attached form a pyrrolidinyl, piperidino, morpholino or 4-N(R<sup>12</sup>)-piperazinyl group wherein said group is optionally substituted with C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>3</sub> alkoxy, NR<sup>13</sup>R<sup>14</sup> or CONR<sup>13</sup>R<sup>14</sup>;

R<sup>11</sup> is H; C<sub>1</sub>-C<sub>3</sub> alkyl optionally substituted with phenyl; (hydroxy)C<sub>2</sub>-C<sub>3</sub> alkyl; or C<sub>1</sub>-C<sub>4</sub> alkanoyl;

R<sup>12</sup> is H; C<sub>1</sub>-C<sub>6</sub> alkyl; (C<sub>1</sub>-C<sub>3</sub> alkoxy)C<sub>2</sub>-C<sub>6</sub> alkyl; (hydroxy)C<sub>2</sub>-C<sub>6</sub> alkyl; (R<sup>13</sup>R<sup>14</sup>N)C<sub>2</sub>-C<sub>6</sub> alkyl; (R<sup>13</sup>R<sup>14</sup>NOC)C<sub>1</sub>-C<sub>6</sub> alkyl; CONR<sup>13</sup>R<sup>14</sup>; CSNR<sup>13</sup>R<sup>14</sup>; or C(NH)NR<sup>13</sup>R<sup>14</sup>;

and  $R^{13}$  and  $R^{14}$  are each independently H; C<sub>1</sub>-C<sub>4</sub> alkyl; (C<sub>1</sub>-C<sub>3</sub> alkoxy)C<sub>2</sub>-C<sub>4</sub> alkyl; or (hydroxy)C<sub>2</sub>-C<sub>4</sub> alkyl;

or a pharmaceutically acceptable salt thereof.

7. The method according to claim 1, wherein the inhibitor is sildenafil, or pharmaceutically acceptable salts thereof.

8. The method according to claim 1, wherein the daily dosage is 10 to 100 mg.